

Notice of Allowability

Application No.

10/762,276

Examiner

HUNG T. NGUYEN

Applicant(s)

UZUKA ET AL.

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/23/06.
2. ☒ The allowed claim(s) is/are 1-8.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |



DISCUSSION OF THE PRIOR ART AND REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: in examiner's opinion, the allowability of claims 1-8 resides in the combination of elements which has been recited in independent claim 1.

Regard claim 1: Stucke (US 5,335,146) discloses in figure 1 an information-processing device comprising: at least one crossbar-board (28) having a switching element (26, see column 3, lines 10-15) mounted thereon, a plurality of back panels (10) detachably connected electrically and mechanically to different sides of said crossbar-board (28); wherein said crossbar-board (24) has a rectangular shape (element 28 is rectangular), and said back panels (10) are connected to longitudinal sides of said crossbar-board (28), the plurality of the back panels (10) opposing each other (see figure 1).

Stucke does not disclose at least one motherboard detachably connected electrically and mechanically to each of said back panels, the motherboard having an information-processing semiconductor element mounted thereon. There would be no motivation to make these modifications.

Regard claim 4: Stucke discloses in figure 1, an information-processing device comprising: at least one crossbar-board (28) having a switching element (26, see column 3, lines 10-15) mounted thereon, a plurality of back panels (10) detachably connected electrically and mechanically to different sides of said crossbar-board (28), wherein said crossbar-board has a polygonal shape, and the plurality of the back panels (10) are connected to the different sides of said crossbar-board (28), the plurality of the back panels (10) being more than two.

Art Unit: 2841

Stucke does not disclose and at least one motherboard detachably connected electrically and mechanically to each of said back panels, the motherboard having an information-processing semiconductor element mounted thereon. Therefore, it would be no motivation to make these modifications.

Regard claim 5: Stucke discloses in figure 1, an information-processing device comprising: a crossbar board-back panel assembly (10) comprising a plurality of crossbar-boards (28) each having a switching element (26, see column 3, lines 10-15) mounted thereon, and a plurality of back panels (10) detachably connected electrically and mechanically to different sides of each of said crossbar-boards (28).

Stucke does not disclose a plurality of motherboards detachably connected electrically and mechanically to each of said back panels, each of the plurality of the motherboards having an information-processing semiconductor element mounted thereon wherein each of said back panels (10) is formed by a plurality of strip panels arranged at positions corresponding to said motherboards, the plurality of the strip panels crossing said crossbar-boards. There would be no motivation to make these modifications.

Regard claim 6: Stucke discloses in figure 1, an information-processing device comprising: a crossbar board-back panel assembly (10) comprising a plurality of crossbar- boards (28) each having a switching element (26, see column 3, lines 10-15) mounted thereon, and a plurality of back panels (10) detachably connected electrically and mechanically to different sides of each of said crossbar-boards (28).

Stucke does not discloses and a plurality of motherboards detachably connected electrically and mechanically to each of said back panels, each of the plurality of the

Art Unit: 2841

motherboards having an information-processing semiconductor element mounted thereon, wherein each of said back panels is formed by a plurality of strip panels arranged at positions corresponding to said crossbar-boards, said motherboards crossing the plurality of the strip panels.

Relevant Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Stephen (US 5352123) teaches the Switching Midplane, Evan et al. (US 4838798) teaches the High Density Board to Board, Takashima (US 5091822) teaches the Radial Type of Parallel Bus Structure. Stucke (US 5335146) teaches High Density Packaging for Device, Wells (US 4237546) multi-layered back plane for computer system.

Conclusion

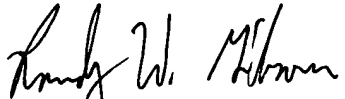
Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG T. NGUYEN whose telephone number is 571-272-5983. The examiner can normally be reached on 8:00AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KAMMIE CUNEO can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

HN

Hung Thanh Nguyen

4/7/06


RANDY W. GIBSON
PRIMARY EXAMINER